Our Practice

Prices in regulated industries rely upon costs, which include the cost of capital as a core component. NERA has been at the forefront of issues concerning the cost of capital for regulated industries for over 40 years—ever since Alfred Kahn devoted an Appendix in his great work The Economics of Regulation to NERA’s Herman Roseman’s cost of capital work in the 1960s.¹

The utility businesses have changed drastically over those 40 years, in structure and ownership, pricing and competitiveness. Throughout all of these changes, regulation has continued to play a key role in the protection of consumers who buy from the remaining “natural” monopolies—local distribution in gas and water, transmission and distribution in electricity and local service in telecommunications. For these regulated businesses around the world, the cost of capital remains an enduring issue—the base of regulated prices and a continuing subject of debate, concern and empirical investigation—in which NERA continues to play a key part.

Key Areas of Expertise

Pursuit of Objectivity
NERA pursues the goal of objectivity in two ways: (1) by using those financial models and methods that permit the greatest objectivity; and (2) by making use of comparable company groups (also known as “proxy groups”) to draw more reliable conclusions about investors’ expectations. Practical financial modeling in a rate case setting should display two attributes: the models should be strictly forward-looking and they should be able to offer an objective way of dealing with the uncertainty that is inherent in gauging investors’ future expectations.

The forward-looking perspective is critical. Investors look toward the future when they demand compensation for the use of their money. Therefore, the cost of equity capital is a forward-looking concept. However, there are few ways to look into the future, particularly from the investor’s perspective.

Those strategies are generally indirect—we look at stock prices or interest rates to gauge these expectations. This indirection is precisely why the field of finance has developed models and methods such as the Discounted Cash Flow (DCF), Capital Asset Pricing Model (CAPM) and Risk Premium (RP). Those models use available information that we can observe to draw conclusions about unobservable investor expectations of the future.

Robust Financial Theories
Gauging investors’ future expectations involves an unavoidable element of uncertainty. There is no reliable way to learn today’s cost of equity capital for the utility in question. This indeed is the practical criterion that separates the usefulness of the most popular financial theories used in rate cases—the DCF and the CAPM. The DCF renders a cost of capital estimate for each company in a proxy group. Some might seem a bit high or low, but the individual company results have objective “measures of central tendency,” such as means and medians.

The CAPM, on the other hand, while often seen by regulators, presents difficulties in application. The theory and techniques surrounding the CAPM, however, continue often to be useful as a check for other methods. CAPM is more widely used outside the U.S., where it is sometimes difficult to implement the DCF model.

Related Investigations
For ratemaking purposes, the cost of equity capital goes hand in hand with the capital structure and cost of debt issues that are frequently addressed in NERA’s evidence. Such investigations also attract many ancillary issues, such as the prudence of interest costs and the effect of particular utility policies (such as weather-normalized rates or multi-year settlements) on the cost of equity. NERA has addressed such issues many times when presenting and defending the commensurate cost of capital in rate cases.

Client Experience

Electric Companies
American Electric Power Texas Companies:
- Central Power & Light Company
- Southwest Electric Power Company
- West Texas Utilities Company
Atlantic City Electric Company
Commonwealth Edison Company
Duquesne Light Company
Entergy Gulf States, Inc.
Florida Power and Light Company
Florida Power Corporation
New York State Electric and Gas Corporation
Pennsylvania Power and Light Company
Pennsylvania Power Company
Philadelphia Electric Company
Portland General Electric Company
Reliant Energy HL&P
Rochester Gas and Electric Corporation
Sierra Pacific Power Company
Southwestern Public Service Company
Texas-New Mexico Power Company
United Illuminating Company
Wallingford Energy LLC

US (and Canadian) Gas Companies
Brooklyn Union Gas Company
Canadian Western Gas Company
Consolidated Gas Supply Corporation

Elizabethtown Gas Company
Kansas Pipeline Partnership and Kansas Natural Partnership
Philadelphia Electric Company - Gas Division
Southwestern Virginia Gas Company
Valley Resources, Inc.
Wisconsin Gas Company

US Telecommunications and Water Companies
China Telephone Company, Maine Telephone Company,
Northland Telephone Company, Sidney Telephone Company, Standish Telephone Company
Kearsarge Telephone Company
Tipton Telephone Company
Community Service Telephone Company
Kearsarge, Chichester and Meriden Telephone Companies
General Telephone Company of Ohio
General Telephone Company of Pennsylvania

U.S. Law Firms
Crowell & Moring, LLP
Cullen & Dykman
Foley & Lardner
Huber, Lawrence and Abell
Morgan Lewis & Bockius
Preston, Gates & Ellis
Preti Flaherty Beliveau Pachios & Haley
Skadden, Arps, Meagher & Flom LLP
Tonkon Torp, LLP
Van Ness, Feldman

About NERA
NERA Economic Consulting (www.nera.com) is a global firm of experts dedicated to applying economic, finance, and quantitative principles to complex business and legal challenges. For over half a century, NERA’s economists have been creating strategies, studies, reports, expert testimony, and policy recommendations for government authorities and the world’s leading law firms and corporations. With its main office in New York City, NERA serves clients from more than 20 offices across North America, Europe, and Asia Pacific.

Contacts
Dr. Jeff D. Makholm
Managing Director
+1 617 927 4540
jeff.makholm@nera.com